

CLAIMS

What is claimed:

1. A circuit, comprising:
 - a battery connection means;
 - a motor control means; and
 - a driven component capable of receiving electric power from a battery connected to the battery connection means only when the motor control means is activated.
2. The circuit set forth in claim 1 further comprising an alternator connection means wherein the driven component is capable of receiving electric power from either the battery or the rectified output of an alternator connected to the alternator connection means.
3. A circuit, comprising:
 - a battery connection means;
 - an alternator connection means;
 - a motor control means;
 - a driven component capable of receiving electric power from either a battery connected to the battery connection means or the rectified output of an alternator connected to the alternator connection means;
 - a first current blocking means for preventing current flow from the battery to the driven component and allowing current flow from the alternator to the battery; and
 - a second current blocking means for preventing current flow from the alternator to the motor control means and allowing current flow from the battery to the driven component when the motor control means is activated.
4. The circuit set forth in claim 3 wherein the first and second current blocking means are diodes.

5. The circuit set forth in claim 3 wherein the first current blocking means includes either a diode or a transistor and the second current blocking means includes either a diode or a transistor.
6. A circuit, comprising:
 - a battery;
 - an alternator;
 - an electric starting motor for starting an engine;
 - a motor control means for controlling the electric starting motor;
 - a driven component capable of receiving electric power from either the battery or the rectified alternator output;
 - a first current blocking for preventing current flow from the battery to the driven component and allowing current flow from the alternator to the battery; and
 - a second current blocking means for preventing current flow from the alternator to the motor control means and allowing current flow from the battery to the driven component when the motor control means is activated.
7. The circuit set forth in claim 6 wherein the motor control means further includes a solenoid.
8. The circuit set forth in claim 7 wherein the motor control means further includes a run or ignition switch, a clutch or brake switch, and an attachment clutch switch.
9. The circuit set forth in claim 8 wherein the first and second current blocking means are diodes.
10. The circuit set forth in claim 8 wherein the first current blocking means includes either a diode or a transistor and the second current blocking means includes either a diode or a transistor.

11. A circuit, comprising:
 - a battery;
 - an alternator;
 - an internal regulator charger that receives an input voltage from the alternator and produces a stable DC output voltage;
 - an electric starting motor for starting an engine;
 - a motor control means for controlling the electric starting motor;
 - a driven component capable of receiving electric power from either the battery or the internal regulator charger;
 - a first current blocking for preventing current flow from the battery to the driven component; and
 - a second current blocking means for preventing current flow from the internal regulator charger to the motor control means and allowing current flow from the battery to the driven component when the motor control means is activated.
12. The circuit set forth in claim 11 wherein the motor control means further includes a solenoid.
13. The circuit set forth in claim 12 further comprising an external regulator charger capable of receiving a 120 V, 60 Hz input voltage and producing a stable DC output voltage.
14. The circuit set forth in claim 12 wherein the motor control means further includes a run or ignition switch and a clutch or brake switch.
15. The circuit set forth in claim 14 wherein the motor control means further includes a PTO disengaging switch.
16. The circuit set forth in claim 14 wherein the first and second current blocking means are diodes.

17. The circuit set forth in claim 14 wherein the first current blocking means includes either a diode or a transistor and the second current blocking means includes either a diode or a transistor.

18. The circuit set forth in claim 15 wherein the first and second current blocking means are diodes.

19. The circuit set forth in claim 15 wherein the first current blocking means includes either a diode or a transistor and the second current blocking means includes either a diode or a transistor.

20. The circuit set forth in claim 15 wherein the first current blocking means includes a transistor, the second current blocking means includes a diode, and which further comprises an external regulator charger capable of receiving a 120 V, 60 Hz input voltage and producing a stable DC output voltage.